

FIG. 1

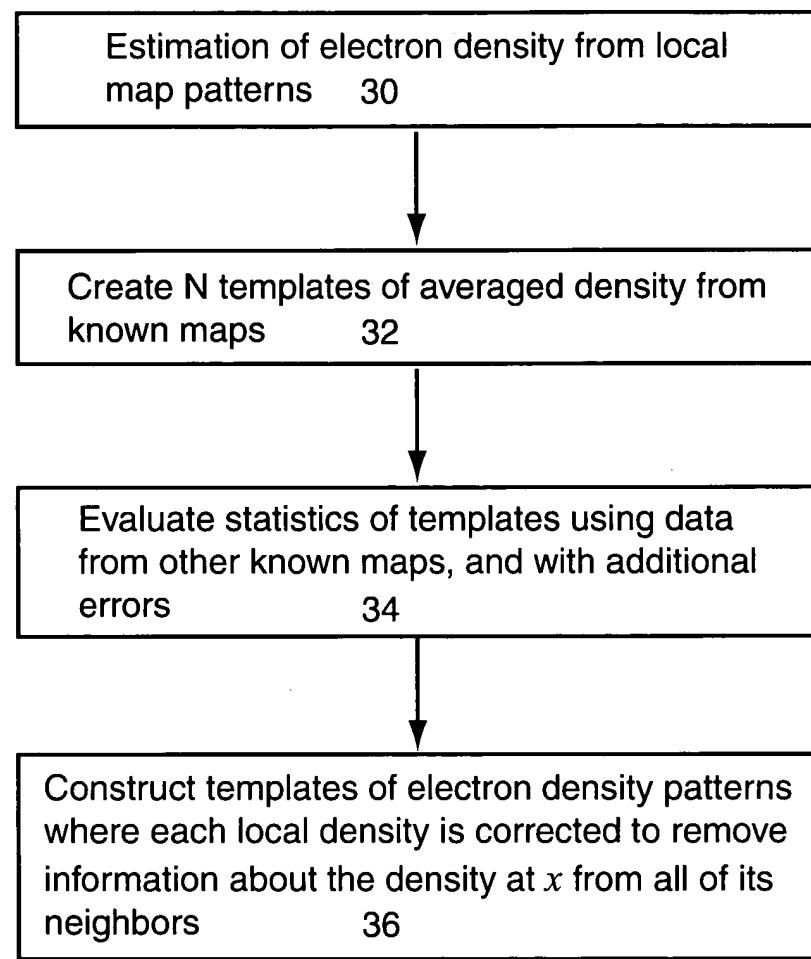


FIG. 2

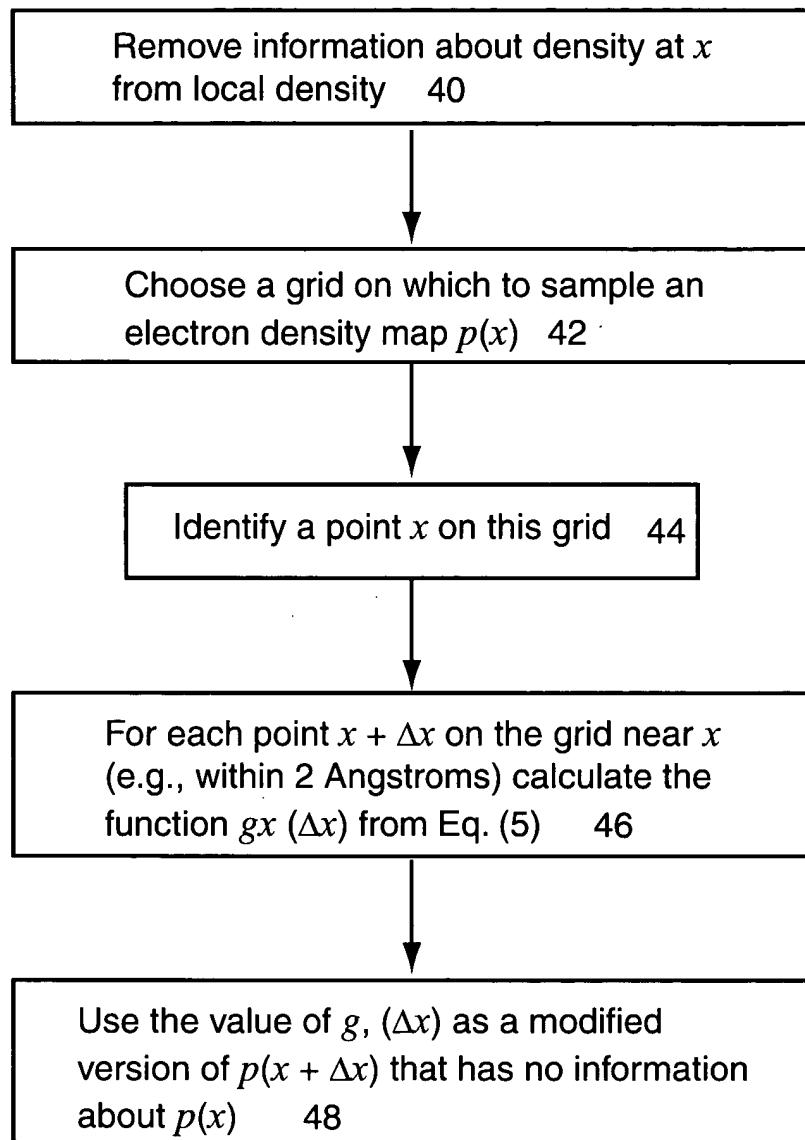


FIG. 3

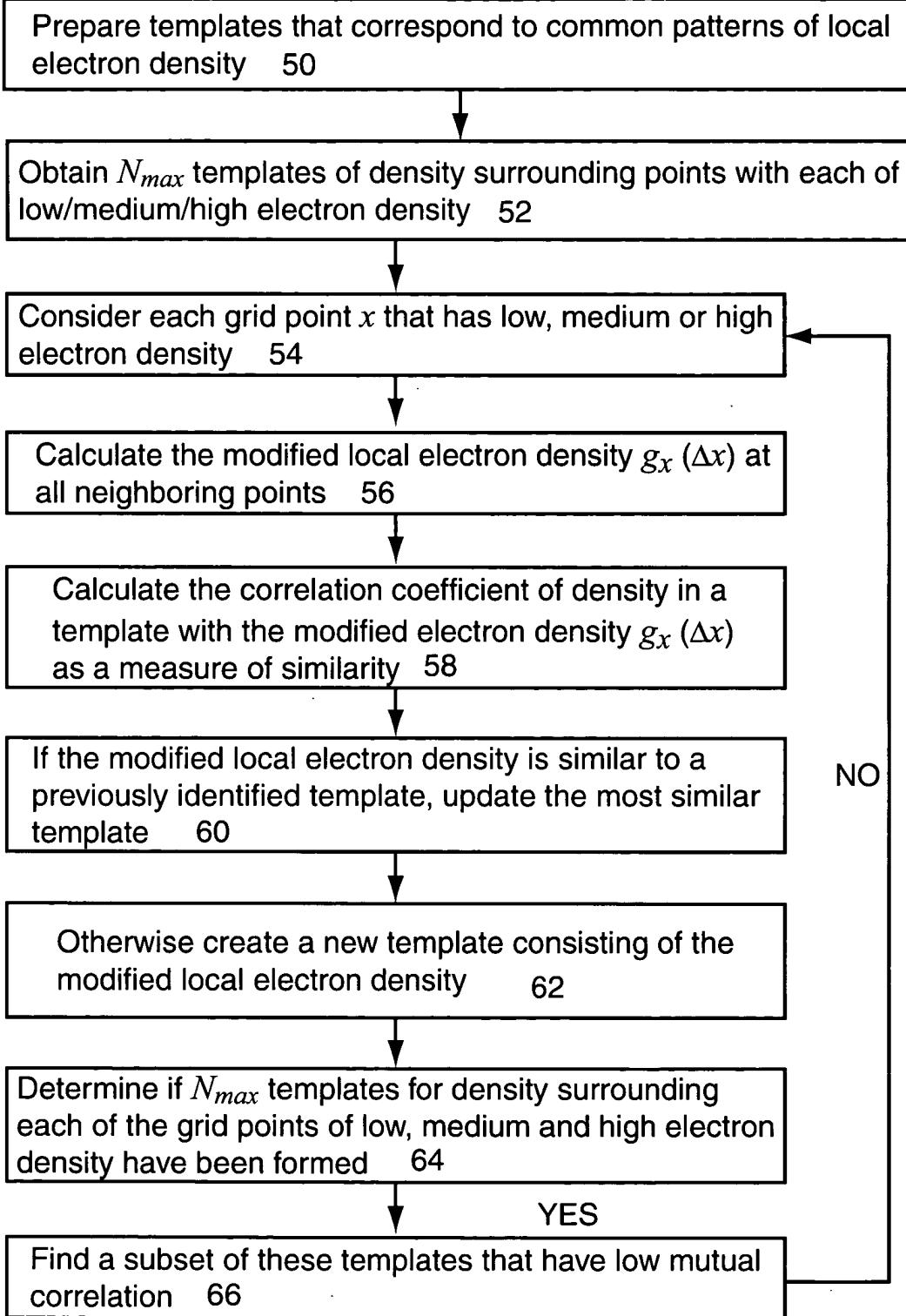


FIG. 4

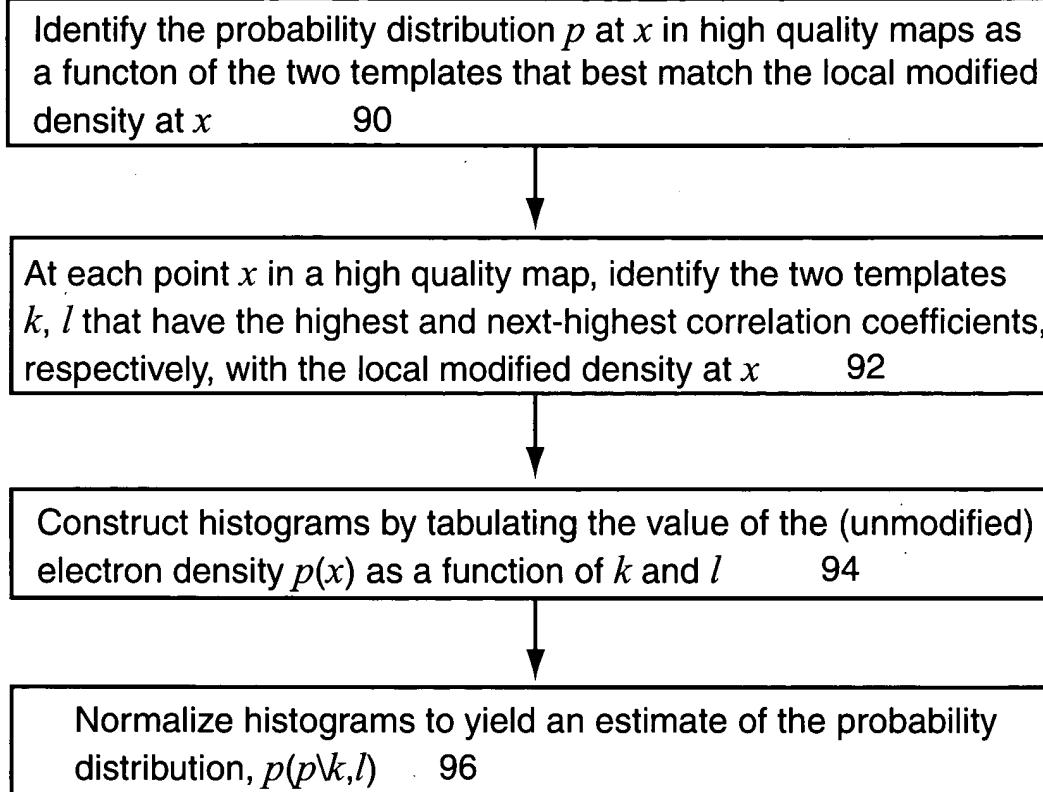


FIG. 5

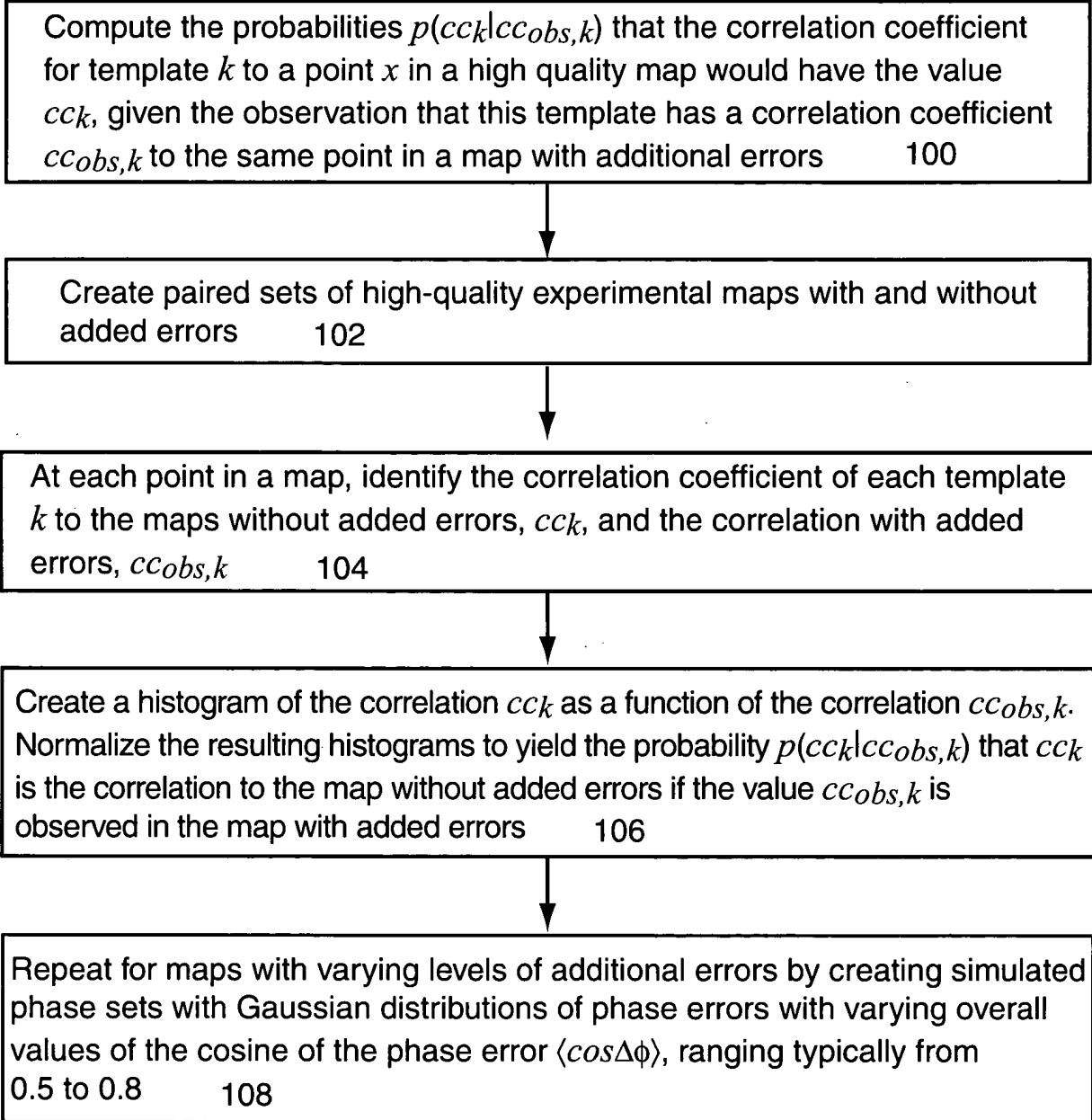


FIG. 6

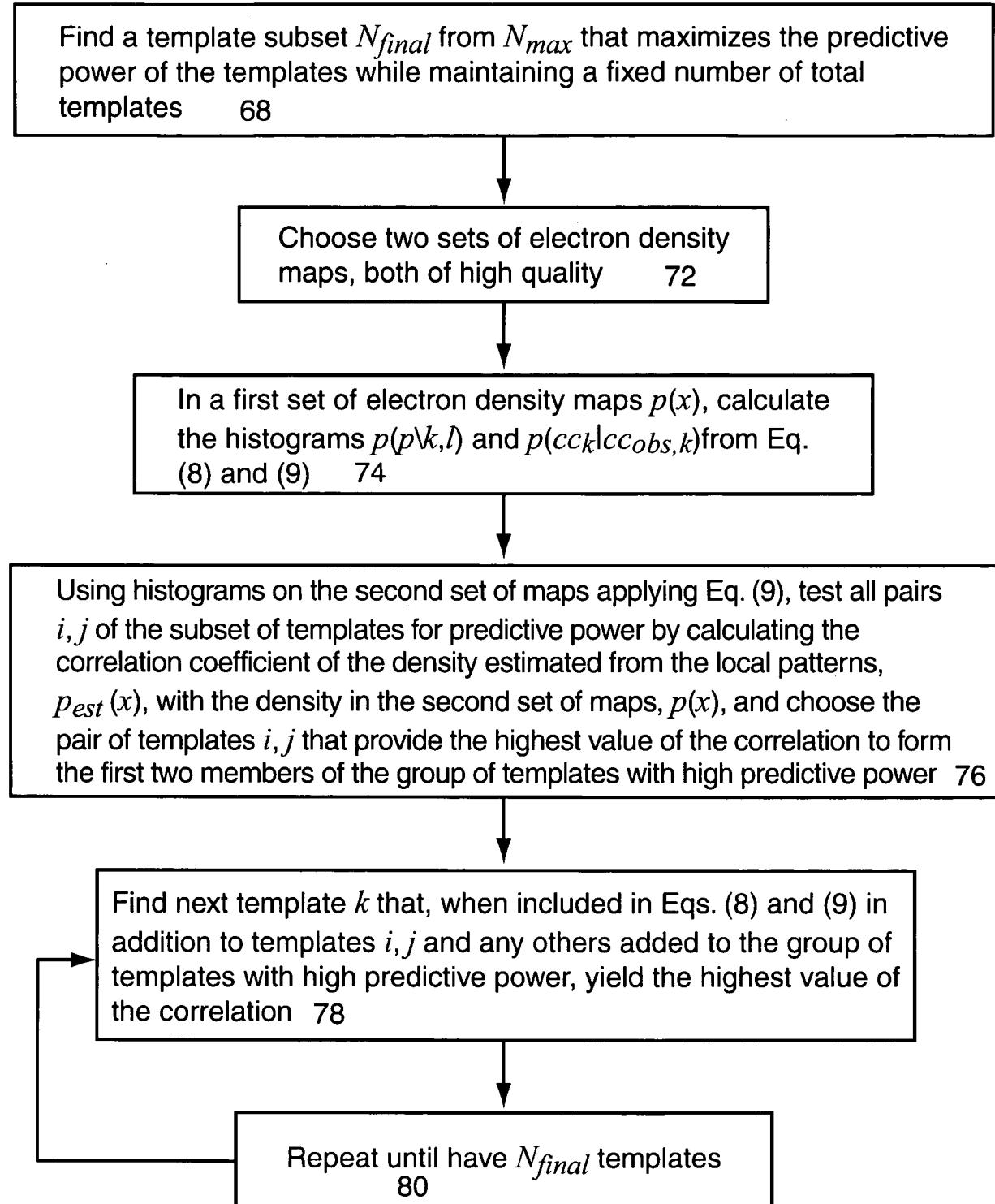


FIG. 7

Estimate the density at grid point x in a map using information from the local modified density 110

Calculate the local modified density near x 112

Calculate the correlation of local modified density near x with each template k , after rotation to maximize the correlation 114

Calculate the estimate of density $p_{est}(x)$ at x using Eqs. (8) and (9) 116

FIG. 8

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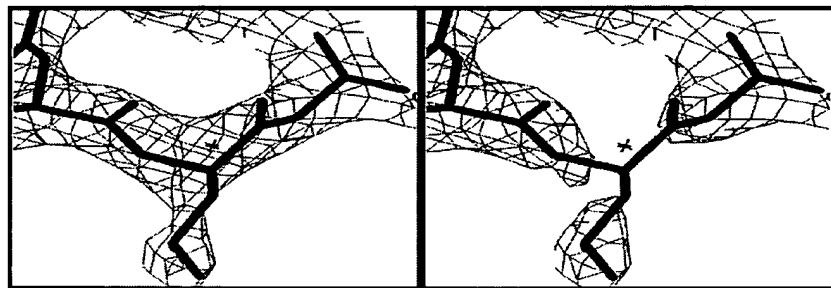


FIG. 9A

FIG. 9B

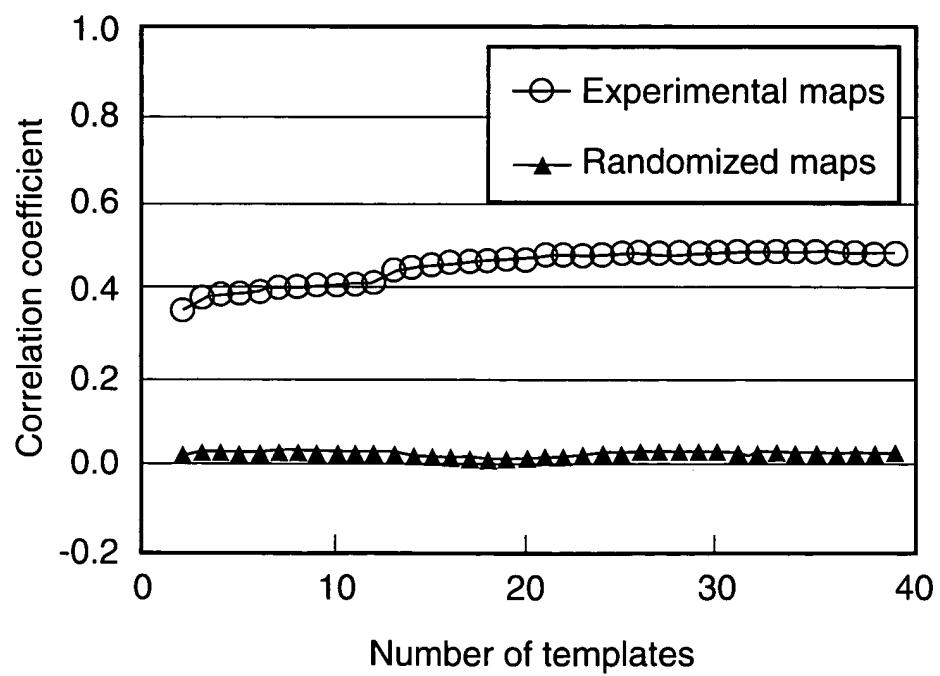


FIG. 10

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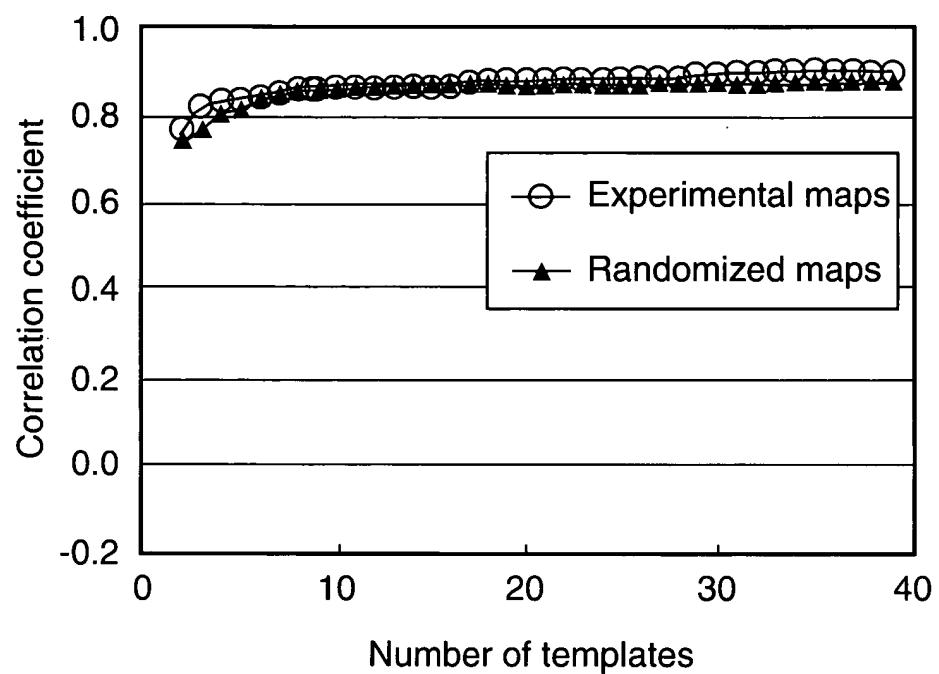


FIG. 11

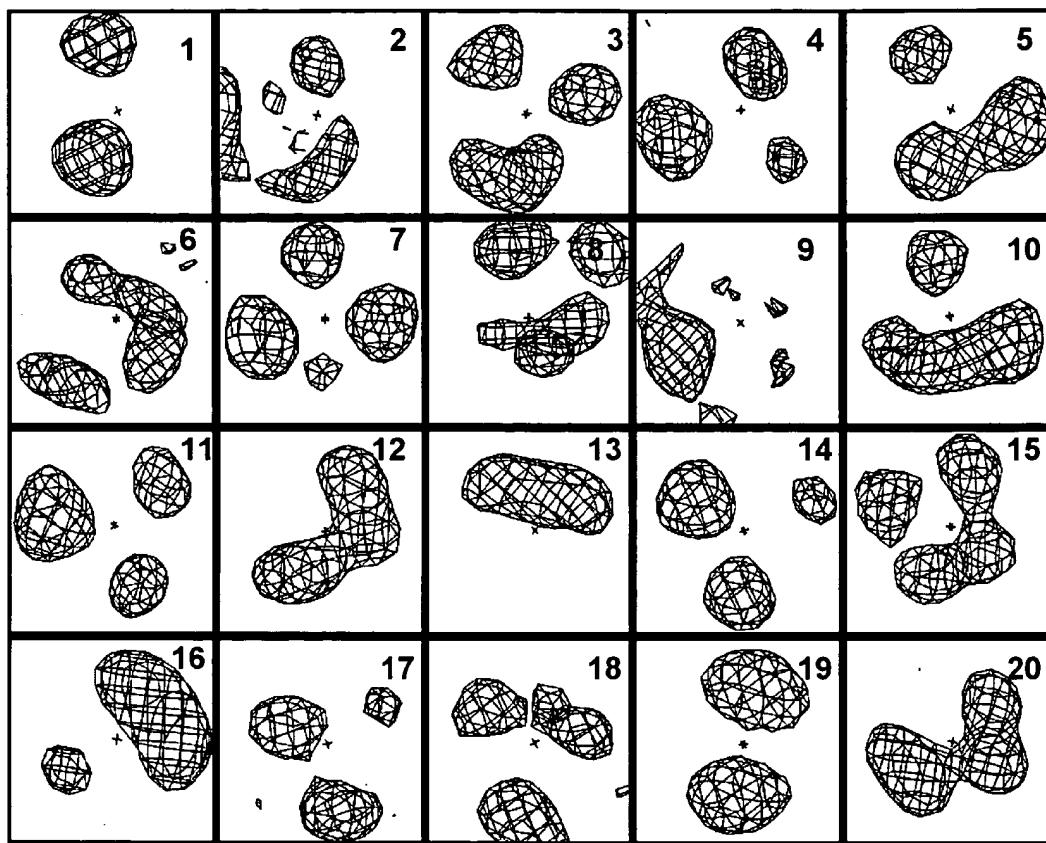


FIG. 12A

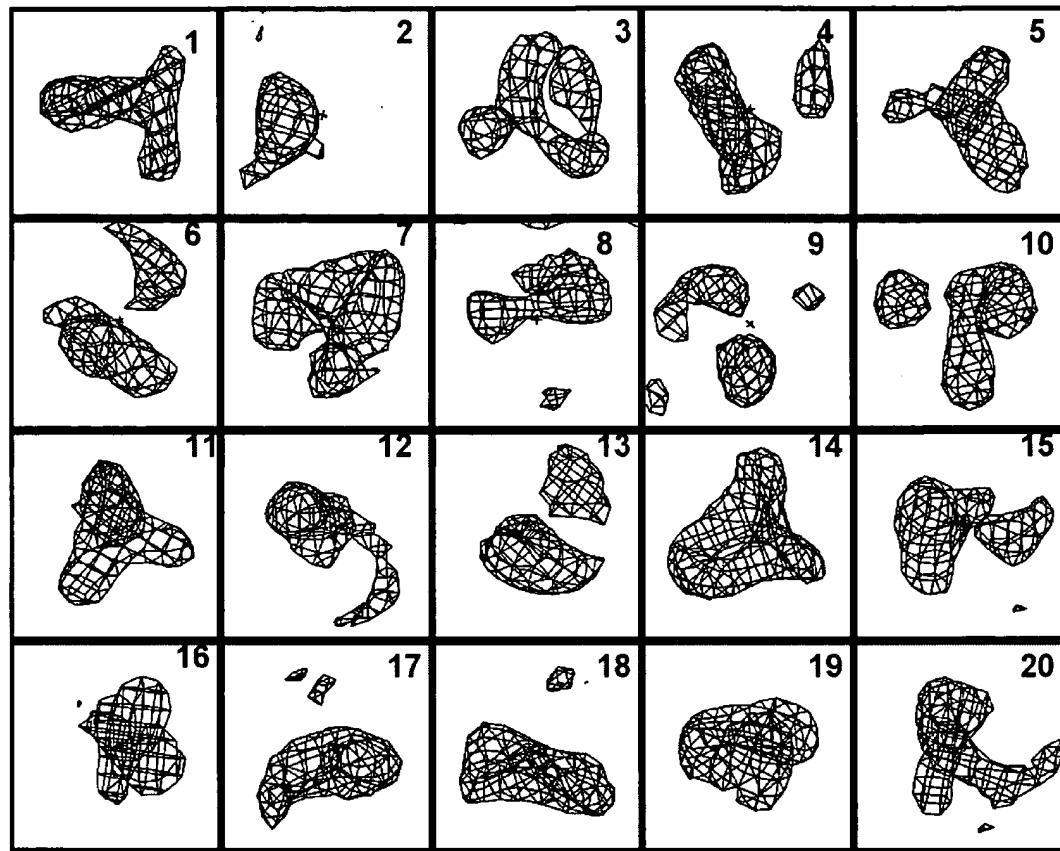


FIG. 12B

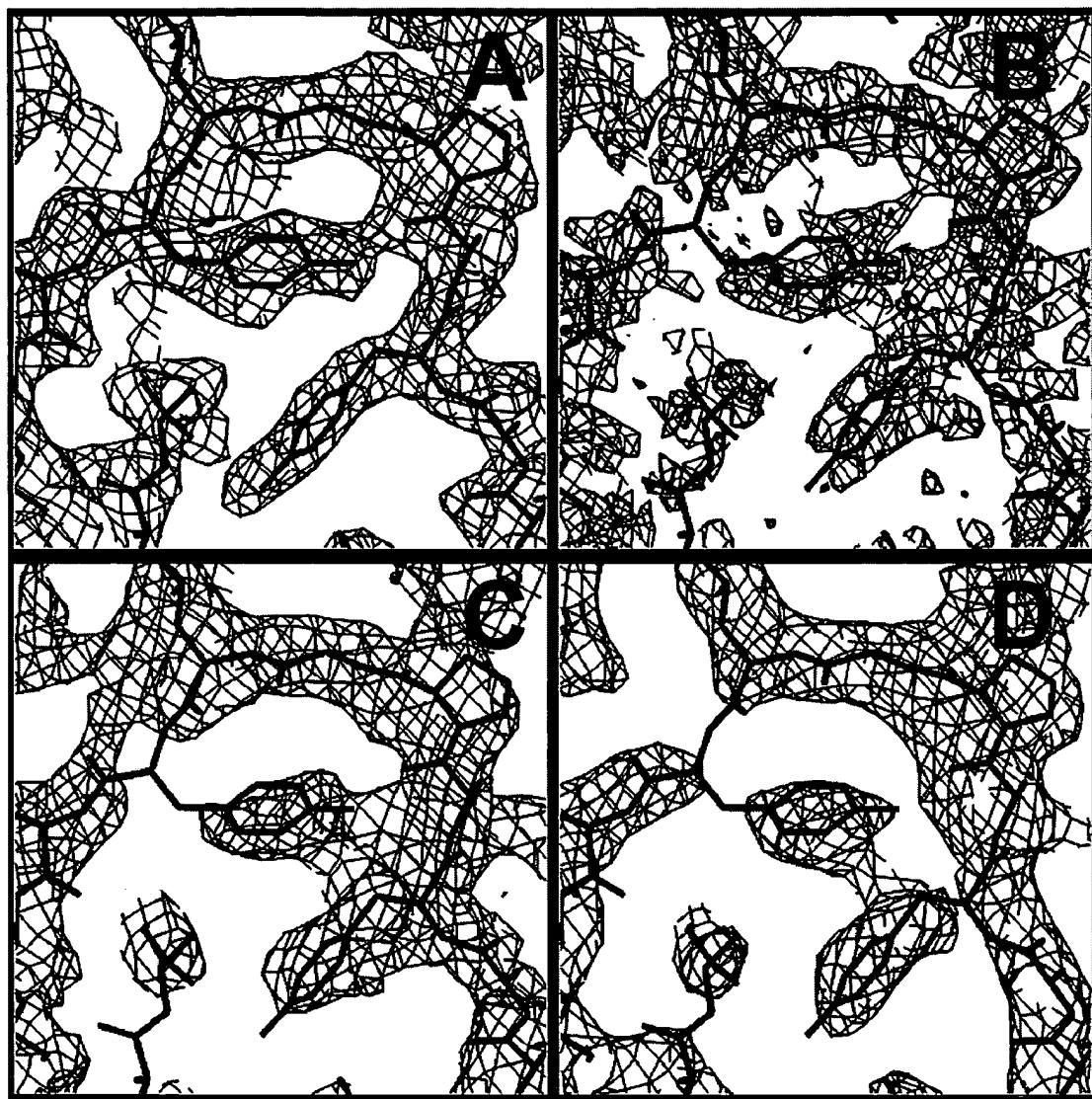


FIG. 13

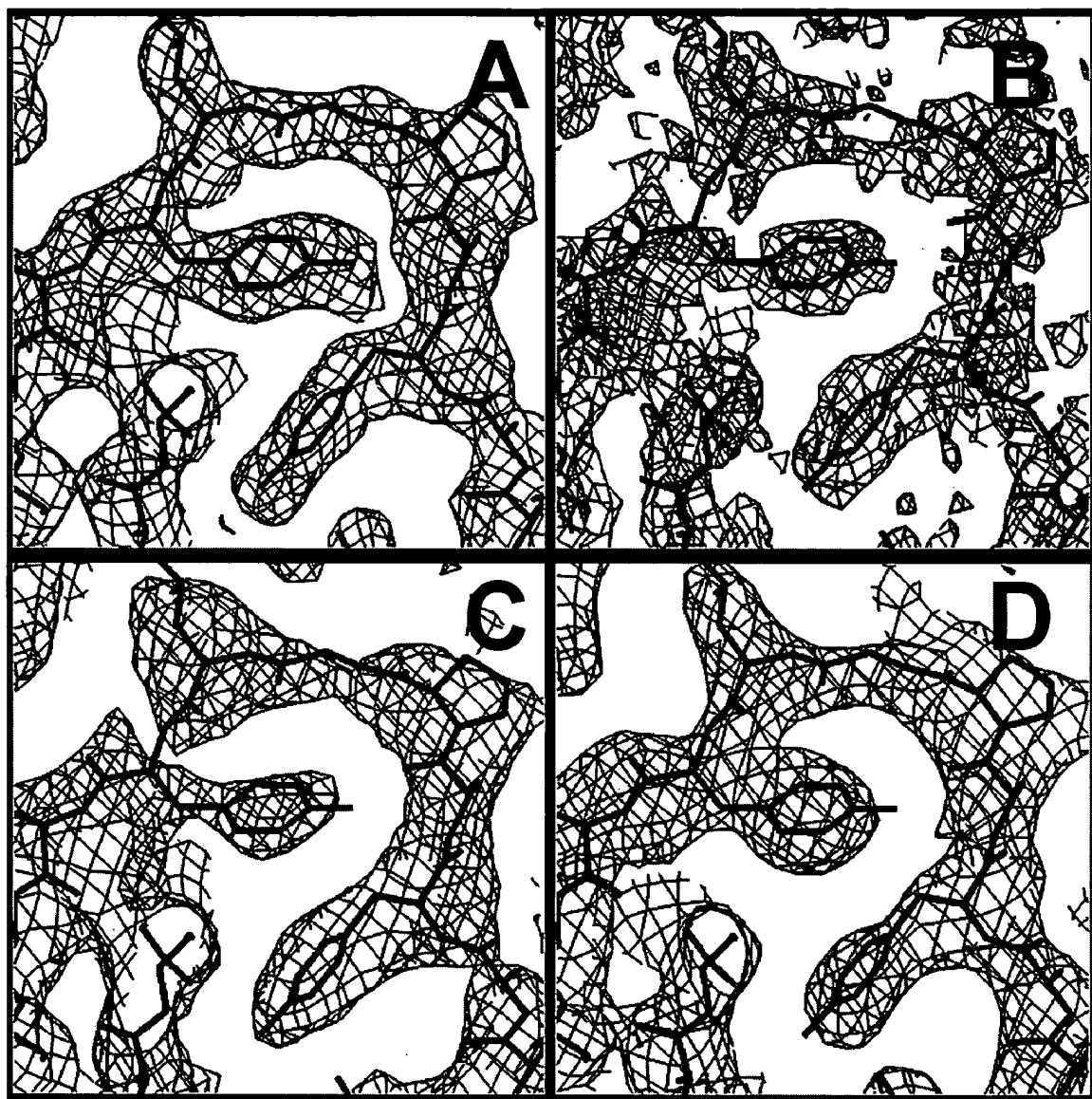


FIG. 14

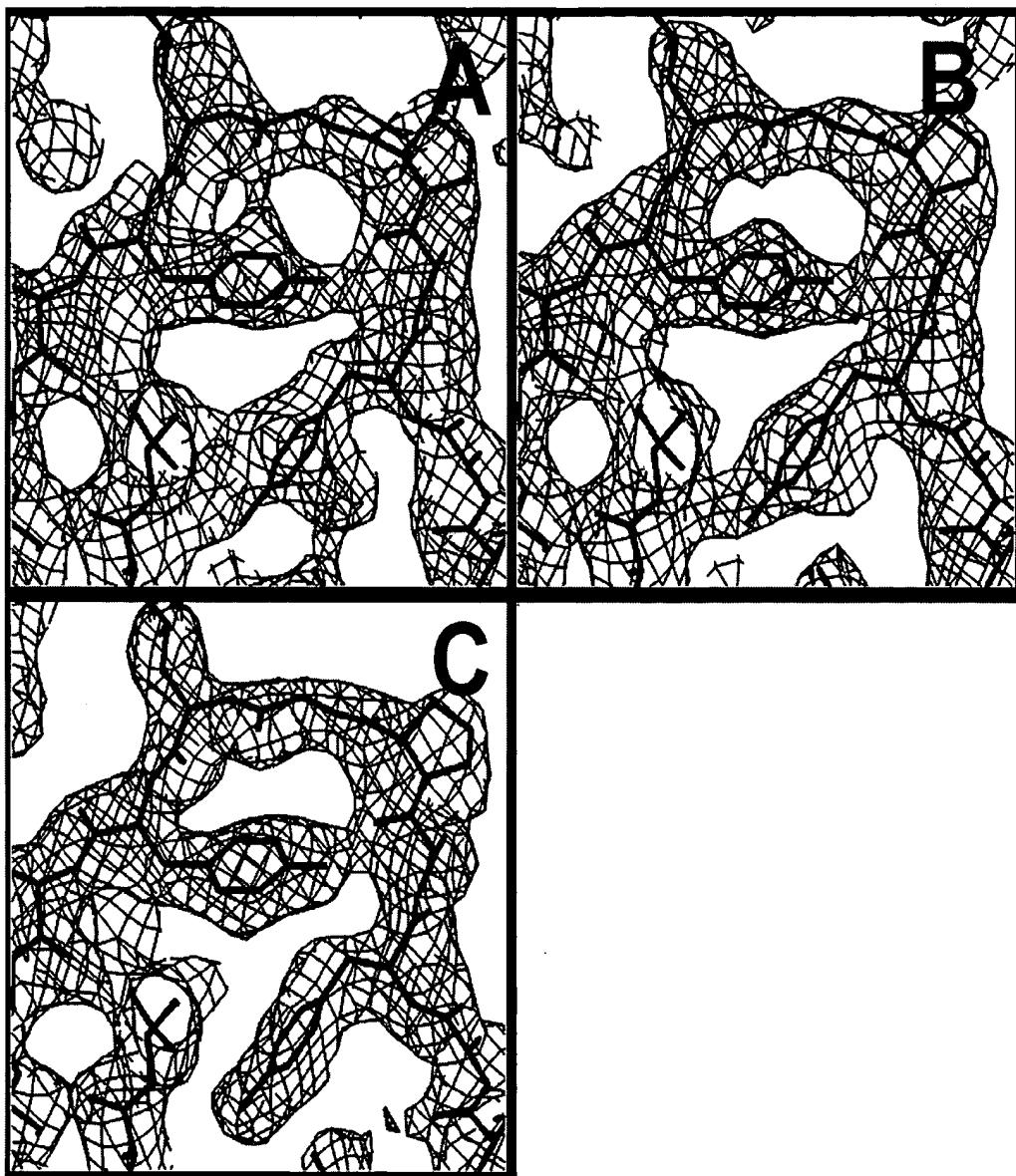


FIG. 15